BRUHAT BANGALORE MAHANAGARA PALIKE

Name Of Work:Modified Estimate For Improvements and Developments to Shivanahalli village surrounding area in Ward No.01 Yelahanka Constituency

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications								
	For RCC Drain	Cum							
	Millinium School Beside Rd		1	212.20	1.10	1.00	233.42		
	Matru Layout								
	1st Cross Rd		2	80.00	1.10	1.00	176.00		
	2nd Cross Rd		2	66.80	1.10	1.00	146.96		
	From Kogilu Main Rd		1	65.80	1.00	1.00	65.80		
	Road-1		2	34.00	1.10	1.00	74.91		
	Road-2		2	101.15	1.10	1.00	221.52		
	Road-3		2	48.50	1.00	1.00	97.02		
	Road-4		2	49.50	1.00	1.00	99.00		
	Road-5		2	52.40	1.00	1.00	104.80		
	Road-6		1	52.70	1.10	1.00	57.97		
	Bande Rd		1	621.20	1.10	1.00	683.32		
	Vishwavani Nagara								
	1st Cross Rd		1	193.50	1.05	0.90	183.55		
	2nd Cross Rd		1	216.30	1.10	0.90	213.94		
	Culvert		15	6.40	1.50	0.90	129.43		
							2487.64	226.00	**562209.06**
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Millinium School Beside Rd		1	212.20	1.10	0.15	35.013		
	Matru Layout								
	1st Cross Rd		2	80.00	1.10	0.15	26.40		
	2nd Cross Rd		2	66.80	1.10	0.15	22.04		
	From Kogilu Main Rd		1	65.80	1.00	0.15	9.87		
	Road-1		2	34.00	1.10	0.15	11.24		
	Road-2		2	101.15	1.10	0.15	33.23		
	Road-3		2	48.50	1.00	0.15	14.55		
	Road-4		2	49.50	1.00	0.15	14.85		
	Road-5		2	52.40	1.00	0.15	15.67		
	Road-6		1	52.70	1.10	0.15	8.67		
	Bande Rd		1	621.20	1.10	0.15	102.11		
	Vishwavani Nagara								
	1st Cross Rd		1	193.50	1.05	0.15	30.61		
	2nd Cross Rd		1	216.30	1.10	0.15	35.69		
	Culvert		15	6.40	1.50	0.15	21.57		
	SSM Block								
	Millinium School Beside Rd		2	107.20	0.15	0.10	3.22		
	CC Road								
	Road-1		1	34.00	5.65	0.15	28.72		

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	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	d-2		1	107.00	5.42	0.15	86.73		
	oad-3		1	49.50	4.45	0.15	32.93		
	Road-4		1	55.00	5.65	0.15	46.46		
	Road-5		1	59.20	5.45	0.15	48.23		
	Road-6		1	52.70	4.20	0.15	33.05		
	Road-7		1	179.30	5.80	0.15	155.99		
	Road-8		1	114.50	5.55	0.15	95.32		
	Road-9		1	55.00	5.30	0.175	51.01		
	Road-10		1	56.50	5.54	0.175	54.77		
	Road-11		1	56.00	5.45	0.175	53.36		
	Sri Lakshmi Venkteshwara Nilaya		1	51.00	5.50	0.15	42.08		
	Road-12(Palagiris house Rd)		1	76.10	1.50	0.175	19.98		
	Vishawavani Nagara								
	1st Cross Rd		1	197.90	5.10	0.15	151.39		
	Front Of # B26 House		1	18.50	4.15	0.170	13.05		
	2nd Cross Rd		1	107.60	4.90	0.175	92.27		
	Deduct Man Holes		-20		1.00	0.15	-3.00		
							1387.07		**7719298.03**
					Upto 125%		**1356.19**	5691.91	**175763.45**
					Above 125%		**30.88**	5691.91	
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	RCC Drain Raft	Cum							
	Millinium School Beside Rd		1	212.20	0.90	0.15	28.647		
	Matru Layout								
	1st Cross Rd		2	80.00	0.90	0.15	21.60		
	2nd Cross Rd		2	66.80	0.90	0.15	18.04		
	From Kogilu Main Rd		1	65.80	0.80	0.15	7.90		
	Road-1		2	34.00	0.90	0.15	9.18		
	Road-2		2	101.15	0.90	0.15	27.31		
	Road-3		2	48.50	0.80	0.15	11.64		
	Road-4		2	49.50	0.80	0.15	11.88		
	Road-5		2	52.40	0.80	0.15	12.58		
	Road-6		1	52.70	0.90	0.15	7.11		
	Bande Rd		1	621.20	0.90	0.15	83.86		
	Vishwavani Nagara								
	1st Cross Rd		1	193.50	0.85	0.15	24.67		
	2nd Cross Rd		1	216.30	0.90	0.15	29.20		
	RCC Drain Wall								
	Millinium School Beside Rd		2	212.20	0.15	0.60	38.20		
	Matru Layout								
	1st Cross Rd		4	80.00	0.15	0.60	28.80		
	2nd Cross Rd		4	66.80	0.15	0.60	24.05		
	From Kogilu Main Rd		2	65.80	0.15	0.45	8.88		
	Road-1		4	34.00	0.15	0.60	12.24		

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	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	ad-2		4	101.15	0.15	0.60	36.41		
	oad-3		4	48.50	0.15	0.40	11.64		
	Road-4		4	49.50	0.15	0.60	17.82		
	Road-5		4	52.40	0.15	0.55	17.29		
	Road-6		2	52.70	0.15	0.60	9.49		
	Bande Rd		2	621.20	0.15	0.60	111.95		
	Vishwavani Nagara								
	1st Cross Rd		2	193.50	0.15	0.60	35.57		
	2nd Cross Rd		2	216.30	0.15	0.60	38.93		
							684.89		
	For RCC Culvert								
	Raft								
	side walls		15	6.40	1.20	0.15	17.28		
			30	6.40	0.23	0.46	20.31		
							37.59		
					Net Qty.		**722.48**	7422.30	**5362452.41**
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain @ 60kg / cum	Tonne		684.89	0.060	--	41.09		
	Considering steel For Culvert @ 90 kg / cum			37.59	0.090	--	3.38		
							44.48	77677.05	**3454806.85**
5	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Millinium School Beside Rd		1	212.20	0.90		190.98		
	Matru Layout								
	1st Cross Rd		2	80.00	0.90		144		
	2nd Cross Rd		2	66.80	0.90		120.24		
	From Kogilu Main Rd		1	65.80	0.75		49.35		
	Road-1		2	34.00	0.90		61.2		
	Road-2		2	101.15	0.90		182.07		
	Road-3		2	48.50	0.75		72.75		
	Road-4		2	49.50	0.75		74.25		
	Road-5		2	52.40	0.75		78.6		
	Road-6		1	52.70	0.90		47.43		
	Bande Rd		1	621.20	0.90		559.08		
	Vishwavani Nagara								
	1st Cross Rd		1	108.40	0.90		97.56		
			1	48.00	0.75		36		
	2nd Cross Rd		1	216.30	0.90		194.67		
							1908.18	2453.38	**4681495**

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	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	oviding and Fixing pre cast covering Slab 250mm thick made out of M25 and jelly 20mm Down size ith steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	For Culvert Slabs	Sqm							
			15	6.40	1.20		114.72		
	Damage/Missing Slabs		4		1.20		4.42		
							119.14	5687.82	**677654.98**
7	KSRRB M300-24. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 2km and complete as per specifications.								
	CC Road	Cum							
	Road-1		1	34.00	5.65	0.30	57.63		
	Road-2		1	107.00	5.42	0.30	174.05		
	Road-3		1	49.50	4.45	0.30	66.08		
	Road-4		1	55.00	5.65	0.30	93.23		
	Road-5		1	59.20	5.45	0.30	96.79		
	Road-6		1	52.70	4.20	0.30	66.32		
	Road-7		1	179.30	5.80	0.30	311.98		
	Road-8		1	114.50	5.55	0.30	190.64		
	Road-9		1	55.00	5.30	0.30	87.45		
	Road-10		1	56.50	5.54	0.30	93.89		
	Road-11		1	56.00	5.45	0.30	91.48		
	Sri Lakshmi Venkteshwara Nilaya		1	51.00	5.50	0.30	84.15		
	Road-12(Palagiris house Rd)		1	76.10	1.50	0.30	34.25		
	Vishawavani Nagara								
	1st Cross Rd		1	197.90	5.10	0.30	302.79		
	Front Of # B26 House		1	18.50	4.15	0.30	23.03		
	2nd Cross Rd		1	107.60	4.90	0.30	158.17		
	Deduct Man Holes		-20		1.00	0.30	-6.00		
	Asphalt Road								
	Bande Road		1	667.20	8.15	0.40	2175.07		
	Millinium School Beside Road		1	187.50	6.00	0.40	450.00		
	Petrol Bunk Beside Rd		1	228.10	5.40	0.40	492.70		
	Cross Rd-1		1	206.10	5.30	0.40	436.93		
	Deduct Man Holes		-15		1.00	0.40	-6.00		
							5474.63		
					Upto 125%		**4534.03**	67.12	**304342.86**
					Above 125%		**940.61**	67.12	**63137.38**
8	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.								
	CC Road	Cum							
	Road-1		1	34.00	5.65	0.15	28.82		
	Road-2		1	107.00	5.42	0.15	87.02		
	Road-3		1	49.50	4.45	0.15	33.04		
	Road-4		1	55.00	5.65	0.15	46.61		

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	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	d-5		1	59.20	5.45	0.15	48.40		
	ad-6		1	52.70	4.20	0.15	33.16		
	oad-7		1	179.30	5.80	0.15	155.99		
	Road-8		1	114.50	5.55	0.15	95.32		
	Road-9		1	55.00	5.30	0.15	43.73		
	Road-10		1	56.50	5.54	0.15	46.95		
	Road-11		1	56.00	5.45	0.15	45.74		
	Sri Lakshmi Venkteshwara Nilaya		1	51.00	5.50	0.12	33.94		
	Road-12(Palagiris house Rd)		1	76.10	1.50	0.15	17.12		
	Vishawavani Nagara								
	1st Cross Rd		1	197.90	5.10	0.15	151.39		
	Front Of # B26 House		1	18.50	4.15	0.15	11.52		
	2nd Cross Rd		1	107.60	4.90	0.15	79.09		
	Deduct Man Holes		-20		1.00	0.15	-3.00		
	Asphalt Road								
	Bande Road		1	667.20	8.15	0.15	815.65		
	Millinium School Beside Road		1	187.50	6.00	0.15	168.75		
	Petrol Bunk Beside Rd		1	228.10	5.40	0.15	184.76		
	Cross Rd-1		1	206.10	5.30	0.15	163.85		
	Deduct Man Holes		-15		1.00	0.15	-2.25		
							2265.59		
						Upto 125%	2100.23	2094.27	4398431.94
						Above 125%	165.37	2094.27	346210.27
9	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in								
	Asphalt Road								
	Bande Road		1	667.20	8.15	0.225	1223.48		
	Millinium School Beside Road		1	187.50	6.00	0.225	253.13		
	Petrol Bunk Beside Rd		1	228.10	5.40	0.225	277.14		
	Cross Rd-1		1	206.10	5.30	0.223	243.10		
	Deduct Man Holes		-15		1.00	0.225	-3.38		
							1993.47	2100.94	4188183.16
10	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.								
	Asphalt Road								
	Bande Road		1	667.20	8.13		5426.34		
	Millinium School Beside Road		1	187.50	6.00		1125.00		
	Petrol Bunk Beside Rd		1	228.10	5.40		1231.74		
	Cross Rd-1		1	206.10	5.30		1092.33		
	Deduct Man Holes		-15		1.00		-15.00		
							8860.41	31.16	276073.15
11	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.								
	Asphalt Road								
	Bande Road		1	667.20	8.15		5437.68		
	Millinium School Beside Road		1	187.50	6.00		1125.00		

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	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	ol Bunk Beside Rd		1	228.10	6.43		1465.54		
	oss Rd-1		1	206.10	5.30		1092.33		
	Deduct Man Holes		-15		1.00		-15.00		
							9105.55	13.35	**121590.59**
12	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications Clause 505 of MORTH V revisionusing 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75								
	Asphalt Road								
	Bande Road		1	667.20	8.15	0.05	272.70		
	Millinium School Beside Road		1	187.50	6.00	0.05	56.25		
	Petrol Bunk Beside Rd		1	228.10	6.43	0.05	73.28		
	Cross Rd-1		1	206.10	5.30	0.05	54.51		
	Deduct Man Holes		-15		1.00	0.05	-0.75		
							455.98	6726.80	**3067315.04**
13	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. – do – using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with								
	Asphalt Road								
	Bande Road		1	667.20	8.15	0.04	217.51		
	Millinium School Beside Road		1	187.50	6.00	0.04	45.00		
	Petrol Bunk Beside Rd		1	228.10	6.43	0.04	58.62		
	Cross Rd-1		1	206.10	5.30	0.04	43.69		
	Deduct Man Holes		-15		1.00	0.04	-0.64		
							364.19	7913.04	**2881817.53**
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.								
	Asphalt Road								
	Bande Road		2.5	667.20	0.10		166.80		
	Millinium School Beside Road		2	187.50	0.10		37.50		
	Petrol Bunk Beside Rd		2	228.10	0.10		45.62		
	Cross Rd-1		2	206.10	0.10		41.22		
							291.14	477.39	**138986.18**
15	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications.								
							0.00	1021.90	**0.00**
16	Cement concrete pavement Construction of un-reinforced plain cement concrete pavement, Thickness as per design, over a prepared sub base with 53 grade cement or any other type as per clause 1501.2.2 M30 (Grade) coarse and fine aggregate conforming to IS: 383 maximum size of coarse aggregate not exceeding 25mm , mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weight batcher as per approved mix design laid in approved fixed of 125 micron thick								
	CC Road	Cum							
	Road-1		1	34.00	5.65	0.15	28.82		

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	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	-2		1	107.00	5.42	0.15	87.02		
	d-3		1	49.50	4.45	0.15	33.04		
	oad-4		1	55.00	5.65	0.15	46.61		
	Road-5		1	59.20	5.45	0.15	48.40		
	Road-6		1	52.70	4.20	0.15	33.16		
	Road-7		1	179.30	5.80	0.15	155.99		
	Road-8		1	114.50	5.55	0.15	95.32		
	Road-9		1	55.00	5.30	0.15	43.73		
	Road-10		1	56.50	5.54	0.15	46.95		
	Road-11		1	56.00	5.45	0.15	45.74		
	Sri Lakshmi Venkteshwara Nilaya		1	51.00	5.50	0.12	33.38		
	Road-12(Palagiris house Rd)		1	76.10	5.20	0.15	59.36		
	Vishawavani Nagara								
	1st Cross Rd		1	197.90	5.10	0.15	151.39		
	Front Of # B26 House		1	18.50	4.15	0.15	11.52		
	2nd Cross Rd		1	107.60	4.90	0.15	79.19		
	Deduct Man Holes		-20		1.00	0.15	-3.00		
							996.61 ✓		
					Upto 125%		**698.29**	5470.47	**3819957.89**
					Above 125%		**298.32**	5470.47	**1631965.97**
E1	KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.								
	Coping Block	Cum							
	Millinium School Beside Rd		2	107.20		0.20	42.88		
							42.88 ✓	1028.20	**44089.22**
								Sub Total 1 Rs.	**43957761.57**
	Miscellaneous & Rounding off								14998.74
								Total Rs.	**43972760.31**

Assistant Engineer
Project Division Yelahanka
BBMP

Assistant Executive Engineer
Project Division Yelahanka
BBMP

Executive Engineer
Project Division Yelahanka
BBMP

Technical Sanction
Accorded For ....
Head of A/C....
CER NO :....Dt:..03/12/2021

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